

acetaldehyde dehydrogenase (acetylating)

Cat. No. EXWM-1116

Lot. No. (See product label)

Introduction

Description

Also acts, more slowly, on glycolaldehyde, propanal and butanal. In several bacterial species this enzyme forms a bifunctional complex with EC 4.1.3.39, 4-hydroxy-2-oxovalerate aldolase. The enzymes from the bacteria Burkholderia xenovorans and Thermus thermophilus also perform the reaction of EC 1.2.1.87, propanal dehydrogenase (propanoylating). Involved in the meta-cleavage pathway for the degradation of phenols, methylphenols and catechols. NADP⁺ can replace NAD⁺ but the rate of reaction is much slower.

Synonyms

aldehyde dehydrogenase (acylating); ADA; acylating acetaldehyde dehydrogenase; DmpF; BphJ

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.2.1.10

CAS No. 9028-91-5

Reaction acetaldehyde + CoA + NAD⁺ = acetyl-CoA + NADH + H⁺

Notes This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.